Questions from the power point (Chemistry of Life)

1. Matter is composed of tiny particles called \_\_\_\_\_\_.
2. What is the smallest part of an element that still has the properties of that element?
3. What two subatomic particles are found in the nucleus of an atom?
4. What is the chemical formula for a molecule of oxygen?
5. Two or more elements chemically combined produce a \_\_\_\_\_\_\_.
6. Bonds formed by transferring electrons are called \_\_\_\_\_\_ \_\_\_\_\_.
7. A \_\_\_\_\_ is a positively charged ion.
8. A \_\_\_\_\_\_ is a negatively charged ion.
9. Sodium and chlorine are attracted toward each other when combined due to \_\_\_\_\_ charges.
10. The sharing of electrons between hydrogen atoms forms \_\_\_\_\_ bonds.
11. Unlike compounds, mixtures can be \_\_\_\_\_\_ separated.
12. Which is stronger, covalent bonds or ionic bonds?
13. Do substances keep their individual properties when forming mixtures? Yes or No
14. Do substances keep their individual properties when forming compounds? Yes or No
15. The amount of solute compared to the amount of solvent in a solution is the \_\_\_\_\_\_ of the solution.
16. If a solvent contains the most solute it can hold, it is \_\_\_\_\_\_.
17. What are three ways that parts of a mixture may be separated from each other?
18. What is the most abundant molecule in the human body?
19. Molecules having a slightly negative and a slightly positive end are considered to be \_\_\_\_\_\_\_.
20. What compound is considered to be the universal solvent?
21. If an atom or atoms gain electrons, the ion will have a \_\_\_\_\_\_ charge.
22. List two examples of cations.
23. Substances that form ions in solution are called \_\_\_\_\_\_\_.
24. The blood in your body is what percent water?
25. The shorthand method of describing the concentration of hydrogen ions in a solution is called \_\_\_\_\_.
26. What is the pH of black coffee?
27. Acids taste \_\_\_\_\_ and turns litmus paper \_\_\_\_.
28. A substance that forms an excess of hydroxide ions is a/n \_\_\_\_\_\_\_\_.
29. A substance that forms an excess of hydroxide ions is a/n \_\_\_\_\_\_\_\_\_.
30. What are the four basic groups of organic compounds?
31. What are the building blocks of lipids?
32. What three elements are found in carbohydrates?
33. Carbohydrates containing two sugar units are called \_\_\_\_\_ .